

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-55 °C to 85 °C ⁽¹⁾	OPERATING HUMIDITY RANGE	RELATIVE HUMIDITY 95 % MAX ⁽³⁾	
	VOLTAGE	50 V AC	STORAGE TEMPERATURE RANGE	-10 °C to 60 °C ⁽²⁾	
	CURRENT	0.3 A	STORAGE HUMIDITY RANGE	40 % to 70 % ⁽²⁾	
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
CONSTRUCTION					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	×	×	
MARKING	CONFIRMED VISUALLY.		×	×	
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz)	60 mΩ MAX .	×	—	
INSULATION RESISTANCE	100 V DC.	100 MΩ MIN.	×	—	
VOLTAGE PROOF	150 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	×	×	
MECHANICAL CHARACTERISTICS					
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE : 100.8 N MAX. WITHDRAWAL FORCE: 4.2 N MIN.	×	—	
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.	1) CONTACT RESISTANCE: 70 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—	
VIBRATION	FREQUENCY 10 TO 55 TO 10 Hz, SINGLE AMPLITUDE: 0.75 mm, 10 CYCLES FOR 3 AXIAL DIRECTIONS.	1) NO ELECTRICAL DISCONTINUITY OF 1 μs. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—	
SHOCK	490 m/s ² , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 BOTH AXIAL DIRECTIONS.		×	—	
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 °C, 90 TO 95 %, 96 h.	1) CONTACT RESISTANCE : 70 mΩ MAX. 2) INSULATION RESISTANCE: 100 MΩ MIN.	×	—	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE: -55 → +85 °C TIME : 30 → 30 min. UNDER 5 CYCLES. (RELOCATION TIME TO CHAMBER: WITHIN 2 TO 3 min)	3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—	
COLD	EXPOSED AT -55 °C, 96 h	1) CONTACT RESISTANCE : 70 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	—	
DRY HEAT	EXPOSED AT +85 °C, 96 h		×	—	
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	1) CONTACT RESISTANCE : 70 mΩ MAX. 2) NO HEAVY CORROSION.	×	—	
SULFUR DIOXIDE	EXPOSED 10 ppm FOR 96 h. (TEST STANDARD: JIS C 60068)		×	—	
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING: PEAK TMP : 250 °C MAX REFLOW TMP: 220 °C MIN FOR 60sec 2) SOLDERING IRONS: 360 °C MAX FOR 5 sec.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.	×	—	
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE 240 °C FOR IMMERSION DURATION, 3 sec.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSUED.	×	—	
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
REMARKS	(1) TEMPERATURE RISE INCLUDED WHEN ENERGIZED. (2) THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED. (3) NON-CONDENSING. Unless otherwise specified, refer to IEC-60512.		APPROVED	NH. NAKATA	16.11.10
			CHECKED	HT. YAMAGUCHI	16.11.10
			DESIGNED	MT. ITANO	16.11.10
			DRAWN	MT. ITANO	16.11.10
Note	QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC-151959-93-00	
HRS	SPECIFICATION SHEET		PART NO.	FX10B-168P-SV (93)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL570-0054-1-93	1/1